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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/550,007	06/23/2006	Antonio Lopez Munoz	5326-13	5755
23117 7590 03/01/2011 NIXON & VANDERHYE, PC			EXAMINER	
901 NORTH GLEBE ROAD, 11TH FLOOR			NGUYEN, VU ANH	
ARLINGTON	, VA 22203		ART UNIT	PAPER NUMBER
			1762	
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			03/01/2011	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)	Applicant(s)		
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10/550,007	LOPEZ MUNOZ, ANTONIO			
10,000,001	EST EE MOTOE, THE STO			
Examiner	Art Unit			
Vu Anh Nguyen	1762			

- The MAILING DATE of this communication appears on the cover sheet with the correspondence address - Period for Reply

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A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CPf1.138(a). In no event, however, may a reply be timely filed to the common state of the provisions of 37 CPf1.138(a). In revent, however, may a reply be timely filed to the main time of the provisions of 37 CPf1.138(a). In revent, however, may a reply be timely filed to the main time of the provision of 37 CPf1.138(a). In revent, however, may a reply be timely filed at the communication, the provision of the pro
Status
1) Responsive to communication(s) filed on 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.
Disposition of Claims
4) Claim(s) 1-10 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-10 are subject to restriction and/or election requirement.
Application Papers
9 The specification is objected to by the Examiner. 10 The drawing(s) filed on si/are: a cocepted or b objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11 The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.
Priority under 35 U.S.C. § 119
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.
Attachment(s)
All Comments 1 Molice of Federences Cited (PTO-892) 4 Interview Summary (PTO-413) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date 3) Intermiter Disciosure Statement(s) (PTO-Strue) 5-

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DETAILED ACTION

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-5, drawn to a method of preparing an ink composition.

Group II, claim(s) 6-10, drawn to an ink composition.

- 2. The groups of inventions listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: The feature common to both Groups of invention is the method of claim 1. However, this method is not a special technical feature since it is obvious over the method taught in US 2003/0199612 to Nakajima.
- 3. Nakajima discloses a method of producing a radiation curable ink for use in inkjet printing [0001]. As inkjet printing [0086] is a digital printing process, the prior art ink is a digital printing ink. The prior art method comprising two major steps: pigment dispersion and dilution (to obtain the ink) [0068]. The pigment dispersion step, which corresponds to the first step in the claimed method, comprises dispersing a pigment (average particle size of 0.08-0.5 microns) [0047] in a mixture of oligomers and monomers [0056].

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including polyol acrylates [0055 & 0057], wherein the dispersion is carried out in order to obtain pigment with an average particle size of 0.3-3 microns [0047]. In the dilution step. the resulting pigment dispersion is diluted with polymerizable components [0069], which include 5-40% of monofunctional monomers (including isobornyl acrylate), 5-70% of bifunctional monomers and 5-30% of trifunctional or polyfunctional monomers (compare [0069] with [0055]). The dilution results in an ink viscosity of 6-500 centipoises at 25°C and a viscosity of 6-20 centipoises at jetting temperature [0078]. (The prior art viscosity is judged to read on the claimed viscosity since the latter is measured at ambiguous temperature). Photoinitiators are included in the dilution step [0071 & 0074]. In an example (Black Colorant Dispersion in [0091]), a pigment is dispersed in a mixture of a copolymer (which may be viewed as an oligomer) and phenoxypolyethylene glycol acrylate (which is a polyol acrylate monomer). Subsequently, the resulting pigment dispersion is added to a solution containing a photoinitiator and a mixture of monomers (including a monofunctional acrylic monomer [0099], a difunctional acrylic monomer [0098] and a polyfunctional acrylic monomer [0097]). The resulting ink is filtered once with a 10-micron filter and then a 0.8-micron filter [0094]. The dispersed pigment has an average particle size of 0.08-0.30 microns and the ink has a viscosity of 12-22 centipoises at 25°C [0095]. Clearly, the prior art method has all the elements of the claimed method except for using a 0.8 micron filter (instead of a 1-micron filter) and for adding the photoinitiator and the monomers in one step (instead on adding it after the addition of the monomers). However, these variations are not critical and therefore obvious to a person of ordinary skill in the art. Whether a 0.8-micron filter or a 1.0Application/Control Number: 10/550,007

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micron filter is used in the final filtration, the final result is to obtain dispersed pigments with an average particle size of less than 0.8 micron. Addition of the photoinitiator in the step of addition of the monomers or in a separately subsequent step is not critical as the photoinitiator is only activated in the curing step.

 A telephone call was made to John C. Eisenhart on 02/18/2011 to request an oral election to the above restriction requirement, but did not result in an election being made.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable on the elected invention or species.

Should applicant traverse on the ground that the inventions have unity of invention (37 CFR 1.475(a)), applicant must provide reasons in support thereof.

Applicant may submit evidence or identify such evidence now of record showing the

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inventions to be obvious variants or clearly admit on the record that this is the case. Where such evidence or admission is provided by applicant, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

5. The examiner has required restriction between product and process claims.
Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder.
All claims directed to a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double

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patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vu Anh Nguyen whose telephone number is (571)270-5454. The examiner can normally be reached on M-F 8:00 AM-5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu can be reached on 571-272-1114. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Vu Anh Nguyen Examiner Art Unit 1762

/David Wu/ Supervisory Patent Examiner, Art Unit 1796